

ABSTRACT

Using an oscillating unit (601) that can start oscillation with a low voltage, an oscillation signal (S1) of the oscillating unit (601) is amplified via a waveform shaping unit (603), and is fed to a boosting control unit (105). A boosting unit (103) is caused to perform a boosting behavior by a boosting clock (Sa) with the same frequency as an oscillation frequency of the oscillation signal (S1) just after the oscillating unit (601) starts. Thereby, a whole electronic timepiece (100) can be self-actuated, even if a generation voltage is low. Further, the oscillating unit (601) is constituted such that a operating current always becomes constant. Thereby, the electronic timepiece can be provided with an electricity-generating unit (101) such as a solar cell with a one-stage constitution having a low open voltage.